

## CLAIMS

WHAT IS CLAIMED IS:

1. An antenna mounting printed-circuit board which is incorporated in equipment having at least a communication function and mounts thereon various modules , wherein

a chip-like antenna element having an open end formed of at least two antenna conductors separated from each other is mounted, and

a ground required by one or plural other modules is disposed and mounted so as to surround a remaining area of a surrounding area of the antenna element except a partial area.

2. An antenna mounting printed-circuit board according to claim 1, wherein the at least two antenna conductors are separated from each other in a height direction.

3. An antenna mounting printed-circuit board according to claim 1, wherein

the antenna element is formed into a thin plate shape having a rectangular section, and

the ground is disposed so as to surround a surrounding area of at least three sides of four sides forming the rectangular section in the antenna element.

4. An antenna mounting printed-circuit board according to claim 1, wherein the antenna element is constructed such that a conductor pattern having a three-dimensional structure

is formed on a specified resin substrate.

5. An antenna mounting printed-circuit board according to claim 4, wherein

in the antenna element, the conductor pattern is formed by connecting a plurality of antenna conductors to each other to enable electrical conduction through one or more through holes provided to pierce the resin substrate from a front surface thereof to a back surface and having insides plated with copper foils.

6. An antenna mounting printed-circuit board according to claim 5, wherein in the antenna element, the conductor pattern is formed by connecting the plurality of antenna conductors into a meandering shape through the one or more of the through holes.

7. An antenna mounting printed-circuit board according to claim 4, wherein the resin substrate is made of a glass cloth epoxy substrate.